



Study on the Requirement of Nitrogen Sources by Scheffersomyces Stipitis NRRL Y-7124 to Produce Ethanol from Xylose Based-media

Mussatto, Solange I.; Carneiro, L. M.; Roberto, I. C.

Publication date:
2017

Document Version
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

Citation (APA):
Mussatto, S. I., Carneiro, L. M., & Roberto, I. C. (2017). *Study on the Requirement of Nitrogen Sources by Scheffersomyces Stipitis NRRL Y-7124 to Produce Ethanol from Xylose Based-media*. Abstract from 25th European Biomass Conference and Exhibition, Stockholm, Sweden.

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Study on the Requirement of Nitrogen Sources by Scheffersomyces Stipitis NRRL Y-7124 to Produce Ethanol from Xylose Based-media

Short introductive summary:

This study aimed at evaluating the requirement of nitrogen sources by the yeast *Scheffersomyces stipitis* NRRL Y-7124 to produce ethanol from xylose based-media. Different nitrogen sources were evaluated, which were used to supplement a defined xylose-based medium and also the hemicellulosic hydrolysate produced from rice straw. Interesting results were achieved, which revealed that it is important to add nitrogen sources to the medium to achieve efficient ethanol production by this yeast strain. However, from rice straw hydrolysate medium, the nitrogen supplementation was not necessary, suggesting that this hydrolysate contains enough nitrogen source to provide an efficient xylose conversion to ethanol.

Presenter: **Solange MUSSATTO, Technical University of Denmark, Novo Nordisk Foundation Center for Biosustainability, Kongens Lyngby, DENMARK**

Presenter's biography:

Solange Mussatto is Head of a Research Group at the Technical University of Denmark. She has over 18 years of expertise in the areas of Biomass Pretreatment and Fermentation Technology with focus on the development of processes for a sustainable conversion of biomass into bio-based products.

Biographies and Short introductive summaries are supplied directly by presenters and are published here unedited

Co-authors:

L.M. Carneiro, Department of Chemical Engineering, Engineering College of Lorena, University of São Paulo, Lorena / SP, BRAZIL

I.C. Roberto, Department of Biotechnology, Engineering College of Lorena, University of São Paulo, Lorena / SP, BRAZIL

S.I. Mussatto, Novo Nordisk Foundation Center for Biosustainability, Technical University of Denmark, Kongens Lyngby, DENMARK

Session reference: 3CV.1.37

Subtopic: 3.5 Bioethanol and sugars from lignocellulosic biomass

Topic: 3. BIOMASS CONVERSION TECHNOLOGIES FOR LIQUID AND GASEOUS FUELS, CHEMICALS AND MATERIALS



EUBCE 2017

25TH EDITION

European Biomass
Conference & Exhibition

BOOK OF ABSTRACT SUMMARIES



12 - 15 JUNE
STOCKHOLM - SWEDEN
Stockholmässan